

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows.

Please replace paragraph [0049] of the specification as originally filed with the paragraph below, which is marked-up to show the changes therein:

[0049] The input unit 512 receives a voltage from an external power supply unit and divides the received voltage into voltages having a magnitude that can be processed by the current converter 514. The current converter 514 is implemented by a plurality of operational amplifiers. The input unit 512 divides the voltage received from the external ~~powers~~ power supply unit into voltage units that are supported by each of the operational amplifiers.

Please replace paragraph [0052] of the specification as originally filed with the paragraph below, which is marked-up to show the changes therein:

[0052] The output unit 518 applies the converted current to a load, i.e., applies the converted current to electrodes of the electrode unit 520, according to a bipolar method. One of the electrodes to which the converted current is applied is connected to a ground of the power supply unit. The output unit 518 applies the current received from the current converter 514 to the electrode unit 520, and, more particularly, to the current supply electrodes of the electrode unit 520. The current is applied to the skin through the current supply electrodes contacting the skin. The measurement electrodes of the electrode unit 520 receive an electrical signal generated in the skin in response to the applied current and ~~outputs~~ output the received signal to the signal processing unit 530.